



Structural Analysis: A Unified Classical and Matrix Approach (Spon Text)

By Amin Ghali, Adam Neville, Tom G. Brown

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This comprehensive textbook, now in its sixth edition, combines classical and matrix-based methods of structural analysis and develops them concurrently. New solved examples and problems have been added, giving over 140 worked examples and more than 400 problems with answers.

The introductory chapter on structural analysis modelling gives a good grounding to the beginner, showing how structures can be modelled as beams, plane or space frames and trusses, plane grids or assemblages of finite element. Idealization of loads, anticipated deformations, deflected shapes and bending moment diagrams are presented. Readers are also shown how to idealize real three-dimensional structures into simplified models that can be analyzed with little or no calculation, or with more involved calculations using computers. Dynamic analysis, essential for structures subject to seismic ground motion, is further developed in this edition and in a code-neutral manner. The topic of structural reliability analysis is discussed in a new chapter.

Translated into six languages, this textbook is of considerable international renown, and is widely recommended by many civil and structural engineering lecturers to their students because of its clear and thorough style and content.

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Review

'This book has much to commend it. It will be of use to a student as a standard work on indeterminate structures. The work will also be of interest to an older engineer who studied his theory of structures before matrix methods were introduced. The book will enable him to see the relations between the new and old methods and bridge the gap between the two.' - Magazine of Concrete Research 'A virtual encyclopaedia of structural analysis' - Choice 'Undoubtedly one of the best and most comprehensive books written on the subject' - Endeavour 'The book is exemplary and stimulating for the future shaping of education in structural analysis.' Der Bauingenieur (translation from German)

About the Author

Amin Ghali is Fellow of the Canadian Academy of Engineering and Professor Emeritus in the Civil Engineering Department of the University of Calgary, Canada

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